

BRINGING SCIENCE TO YOU

An evening science lecture series

Please note the following dates and locations:

Livermore High School, 600 Maple St., Livermore

- Thursday, September 20, 2001
- Thursday, November 15, 2001
- Thursday, January 24, 2002
- Thursday, February 28, 2002

Amador High School Playhouse, 1555 Santa Rita Road, Pleasanton

- Thursday, October 25, 2001

Tracy Community Center, 300 East 10th St. Tracy

- Thursday, March 21, 2002

For directions to any site, please go to <http://www.llnl.gov/llnl/06news/community/lectures.html> or call (925) 422-4599.



*Lawrence Livermore
National Laboratory
presents. . .*

SCIENCE 2002

LECTURE SERIES

*A unique evening lecture
series bringing science to
the community.*



Lawrence Livermore National Laboratory presents a series of six lectures during the 2001-2002 school year to bring important, current science topics to the community. We are pleased this year to include Pleasanton and Tracy.

Scientists will discuss subjects ranging from DNA detection and the search for extraterrestrial intelligence, to volcanoes and the physics of baseball. (*See schedule inside.*)

Speakers will discuss their research, present leading-edge information and follow their presentations with a question-and-answer period.



**See inside for schedule of
speakers**



Each lecture is free and seating is available on a first-come basis. Talks are suitable for anyone interested in science.

**Visit our Website,
<http://www.llnl.gov/llnl/06news/Community/lecture.html>
for maps and further information.**

LAWRENCE LIVERMORE NATIONAL LABORATORY

SCIENCE 2002

For more information about the lecture series
or about the Laboratory in general, contact:

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Fax: LLNL Public Affairs: (925) 423-2943
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UC: <http://www.ucop.edu/welcome.html>
U.S. Department of Energy: <http://www.doe.gov/>
LLNL Public Affairs Visitors Center: <http://www.llnl.gov/PAO>

Outreach for public awareness and education is a key goal of both the U.S. Department of Energy and the University of California. Lawrence Livermore National Laboratory is operated by UC for DOE's National Nuclear Security Administration.

FORENSICS • SPACE RESEARCH • VOLCANOLOGY • BASEBALL PHYSICS

YOU ARE INVITED TO ATTEND THESE EXCITING SCIENCE LECTURES



Forensic Science Center

by Brian Andresen, LLNL

Thursday, Sept. 20, 2001
7 p.m.

Livermore High School
600 Maple St., Livermore

LNL's Forensic Science Center helps law enforcement agencies when extraordinary scientific analyses are required. These capabilities have helped in cases such as the World Trade Center bombing, the Unabomber and the Glendale "Angel of Death."

Dr. Brian Andresen is the Director of the Forensic Science Center at LLNL.



The International Space Station: The First Step to Infinity

by Susan Minor, NASA

Thursday, Oct. 25, 2001
7 p.m.

Amador High School Playhouse
1555 Santa Rita Rd., Pleasanton

The ISS is the largest and most complex international construction and research project ever. Drawing upon the scientific and technical expertise of 16 nations, the ISS is a unique platform not only for research, but for the human experiment of living and working in space.

Susan Minor is the Senior Space Station Operations Engineer in the Office of Space Flight at NASA.



SETI: On the Brink of Discovery?

(Search for Extraterrestrial Intelligence)

by Dr. Peter Backus,
SETI Institute

Thursday, Nov. 15, 2001
7 p.m.

Livermore High School
600 Maple St., Livermore

Discoveries from the depths of the ocean and the remote ice fields of Antarctica suggest that life may be common in the universe. Breakthroughs in computer and communications technology will give us the opportunity to search for life with sensitivity and capability.

Dr. Peter Backus is the Observing Programs Manager for the Search for Extraterrestrial Intelligence (SETI) Institute in Mountain View.



Challenges in Monitoring Hazardous Volcanoes

by Dr. Robert Tilling,
U.S. Geological Survey

Thursday, Jan. 24, 2002
7 p.m.

Livermore High School
600 Maple St., Livermore

Worldwide, more than 500 volcanoes have erupted one or more times in recorded history, and about 50-60 volcanoes are in eruption each year. In the past millennium, volcano-related hazards have killed more than 300,000 people and have caused billions of dollars of economic loss. Despite ever-improving knowledge, the capability to reliably predict explosive eruptions still eludes volcanologists.

Dr. Robert Tilling has served as the Chief Scientist of the Volcano Hazards Team for the U.S. Geological Survey.



From Dating Ancient Artifacts to Revolutionizing Biological Science

by Dr. John Knezovich, LLNL

Thursday, Feb. 28, 2002
7 p.m.

Livermore High School
600 Maple St., Livermore

Carbon dating techniques refined at Lawrence Livermore's Center for Accelerator Mass Spectrometry can address unique environmental and biological research questions. Measurements are being used to address earthquake frequency, climate-induced changes in ocean circulation and the fields of nutrition, toxicology and pharmacology.

Dr. John Knezovich has served as the Director of CAMS at LLNL since 1998.



The Physics of Baseball

by Dr. John White, LLNL

Thursday, March 21, 2002
7:30 p.m.

Tracy Community Center
300 East 10th St., Tracy

By combining simple physics concepts with demonstrations using popular toys, this talk on the science of the perfect baseball swing is guaranteed to provide tips to improve your game and your understanding of science.

Dr. John White, a Livermore Lab Physicist, has managed and coached a variety of youth sports teams, including baseball, and is the author of "Batting Basics: Science of the Perfect Swing."

Visit <http://www.llnl.gov/llnl/O6news/Community/lecture.html> for maps, speaker biographies and further information.